

FIG. 8

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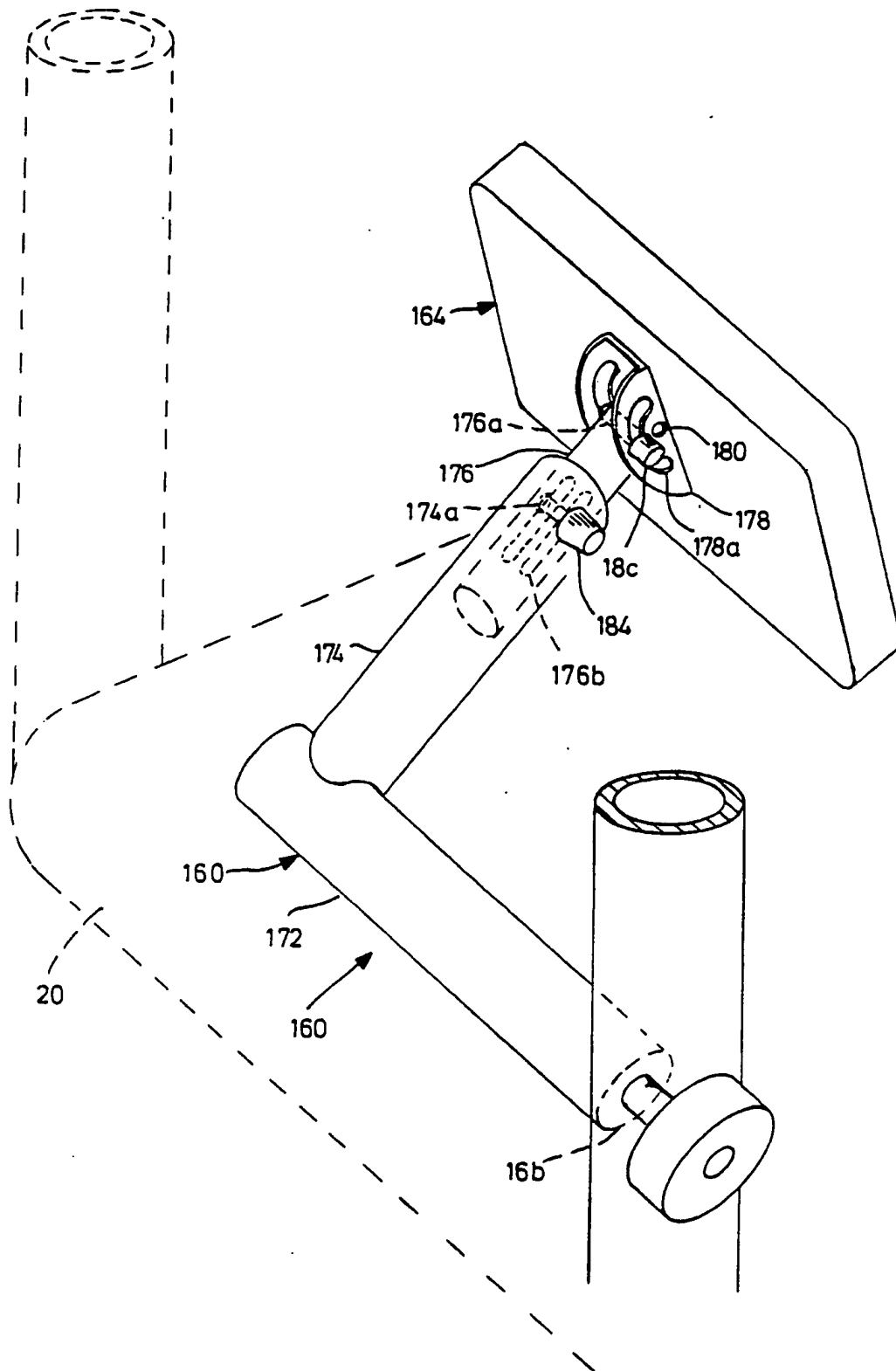


FIG. 7

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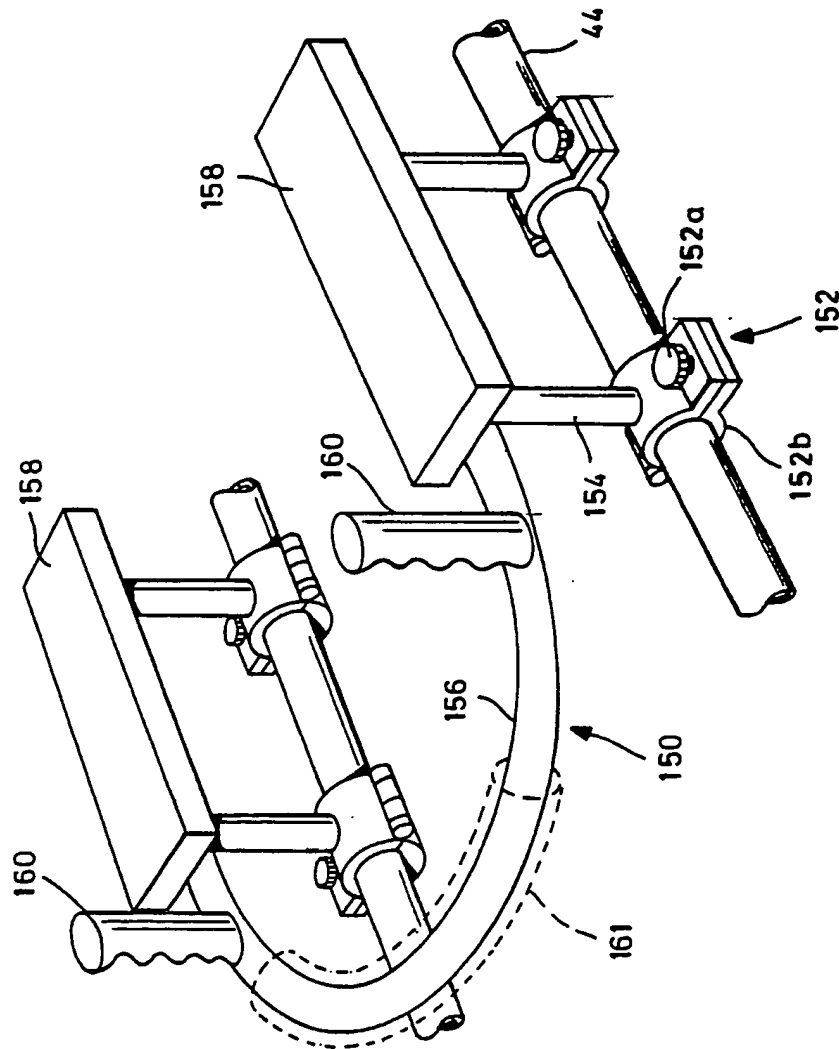


FIG. 6

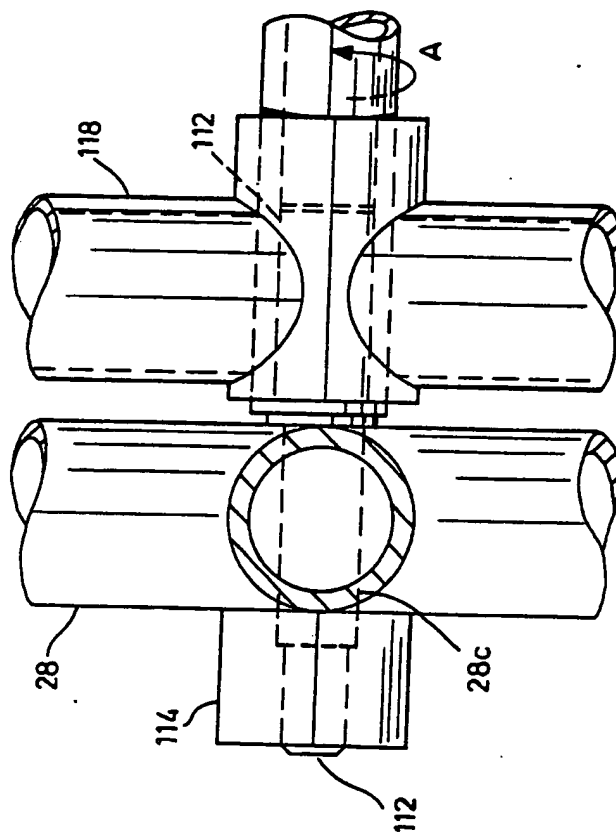
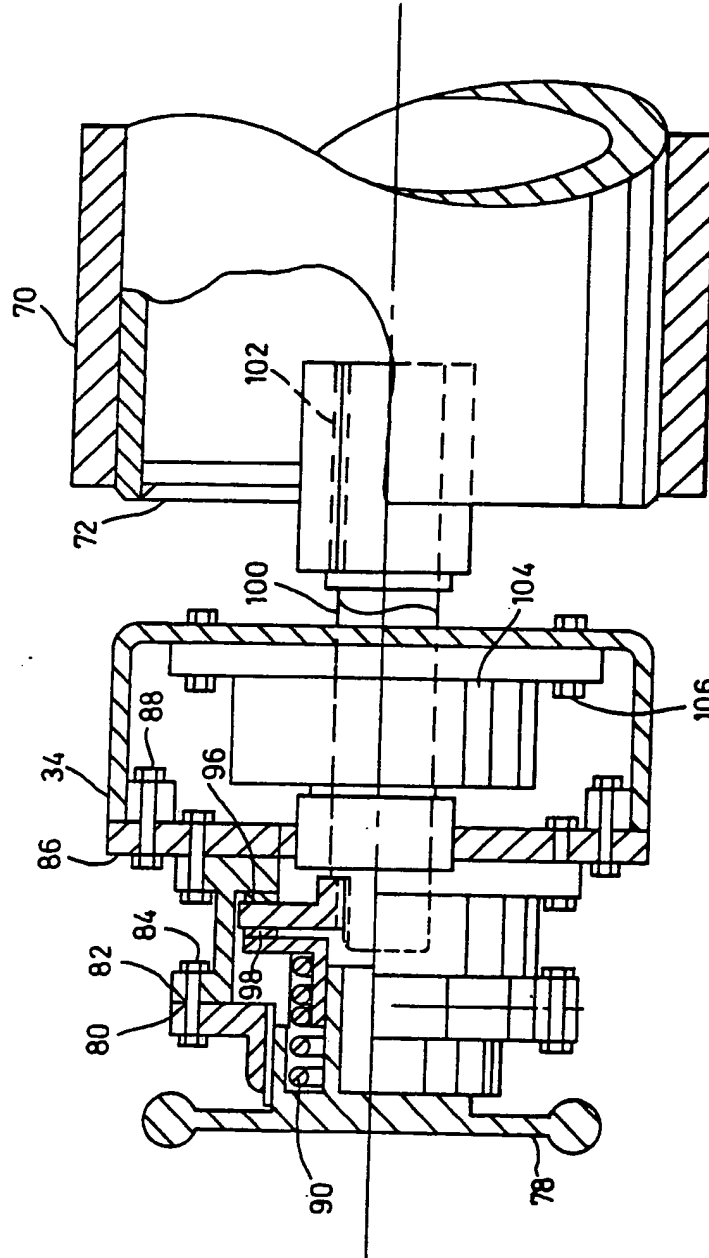


FIG. 5

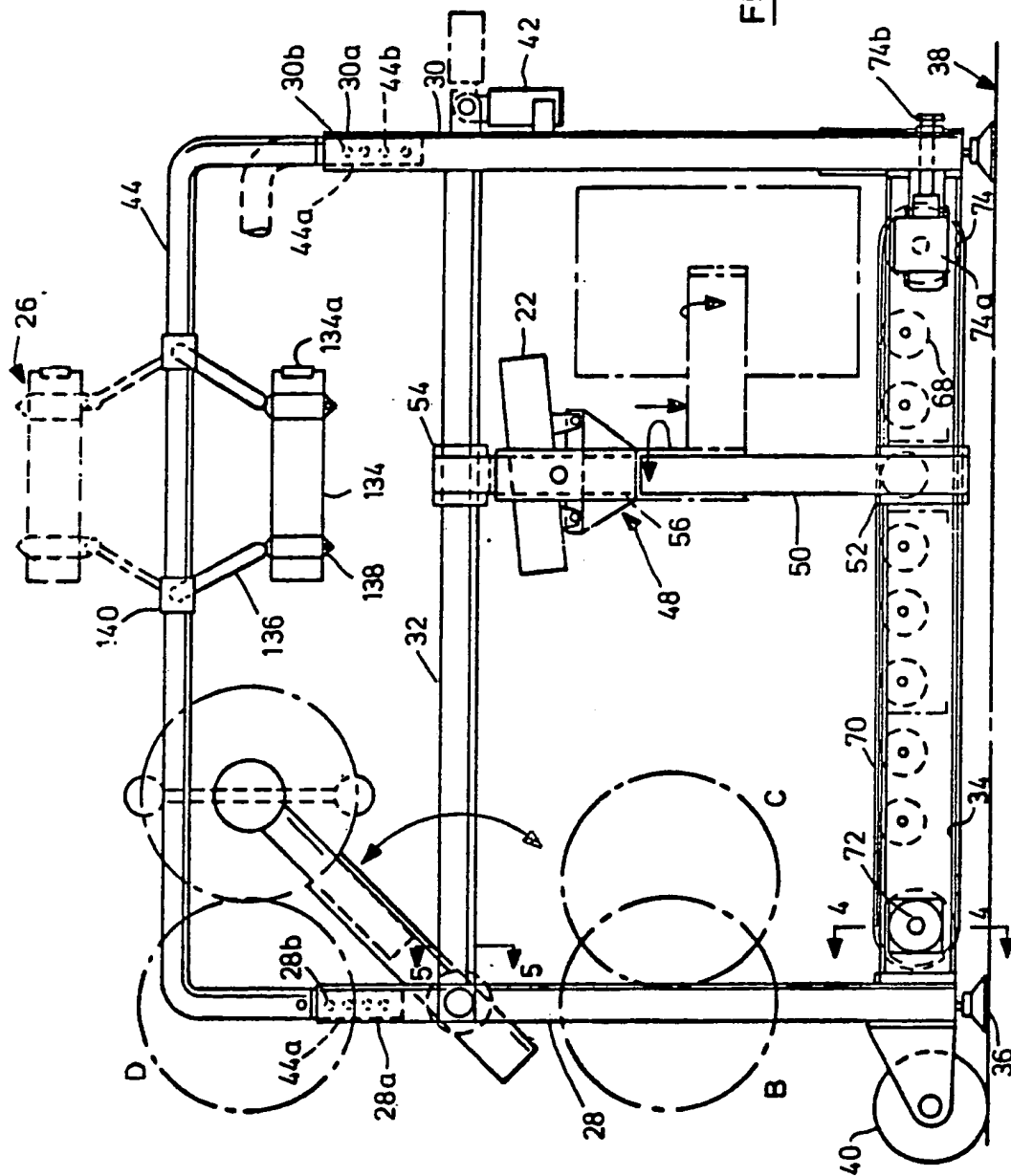
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FIG. 2



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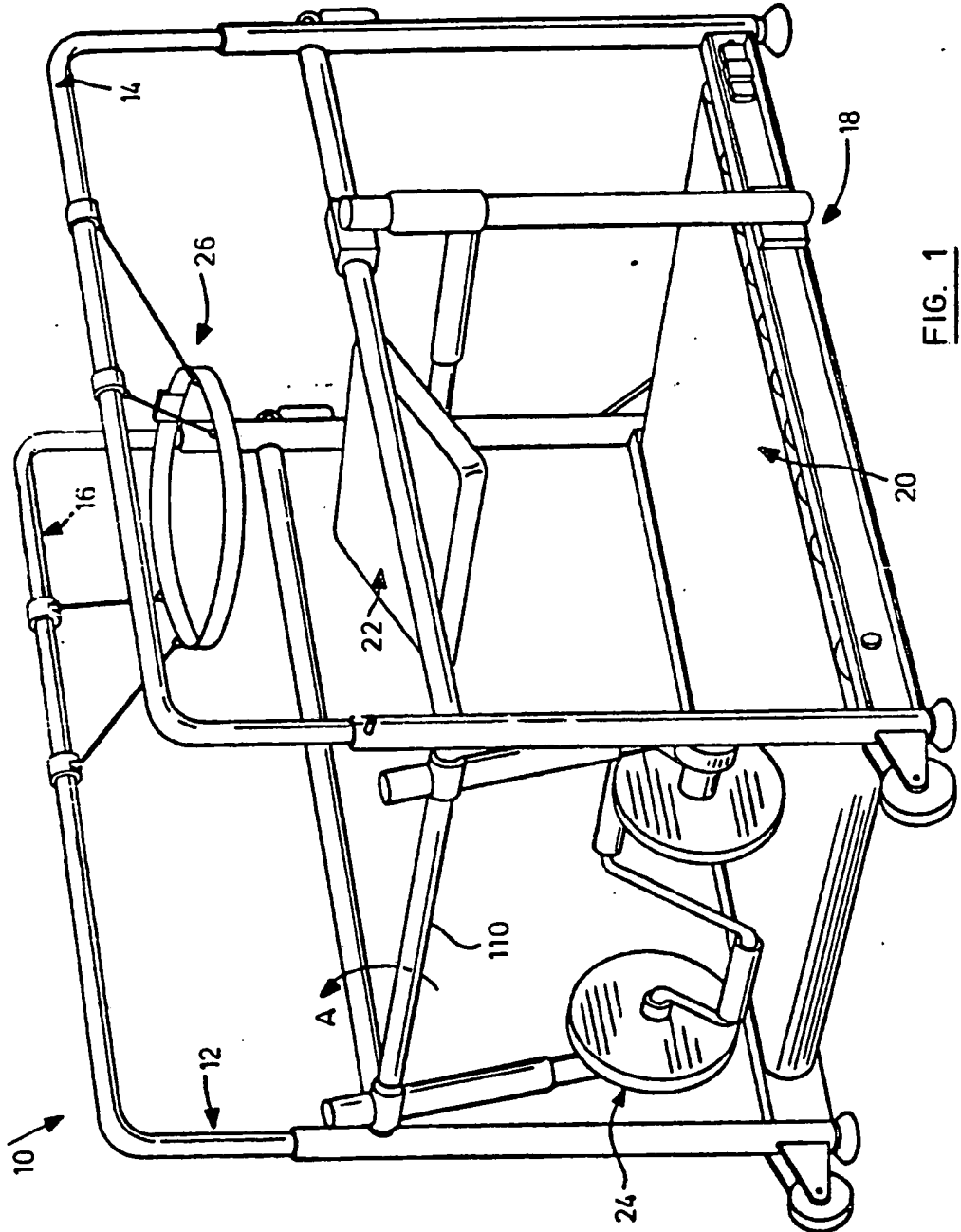


FIG. 1

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INTERNATIONAL SEARCH REPORT

International Application No PCT/US87/01734

I. CLASSIFICATION OF SUBJECT MATTER (If several classification symbols apply, indicate all) ³		
According to International Patent Classification (IPC) or to both National Classification and IPC		
IPC(4): A63B 23/06		
U.S. Cl: 272/69		
II. FIELDS SEARCHED		
Minimum Documentation Searched ⁴		
Classification System	Classification Symbols	
U.S.	272/69, 70, 73 128/25R	
Documentation Searched other than Minimum Documentation to the Extent that such Documents are Included in the Fields Searched ⁵		
III. DOCUMENTS CONSIDERED TO BE RELEVANT ¹⁴		
Category ⁶	Citation of Document, ¹⁰ with indication, where appropriate, of the relevant passages ¹⁷	Relevant to Claim No. ¹⁸
A	US,A, 4,026,545 (SCHONENBERGER) 31 MAY 1977 See col. 1, lines 59-62; col. 2, lines 55-63	
A	US,A, 4,204,673 (SPEER, SR.) 27 MAY 1980 See col. 2, lines 40-44, 55-68; col. 3, lines 1-8	
A	US,A, 2,399,915 (DRAKE) 07 MAY 1946 See col. 3, lines 40-53; col. 4, lines 19-28; col. 5, lines 48-55	1,15-19
A	US,A, 3,870,297 (ELDER) 11 MARCH 1975 See col. 5, lines 8-65	
Y	CAN,A, 672583 (PRIMEAU) 22 OCTOBER 1963 See page 5, lines 22-28, page 6, lines 1-6	1,7,15,16,19
Y	US,A, 2,826,192 (MANGAS) 11 MARCH 1958 See col. 2, lines 50-53, lines 58-66	1,18,19
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>¹⁶ Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the International filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the International filing date but later than the priority date claimed</p> </div> <div style="width: 45%;"> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>"&" document member of the same patent family</p> </div> </div>		
IV. CERTIFICATION		
Date of the Actual Completion of the International Search ¹⁹		Date of Mailing of this International Search Report ²⁰
01 OCTOBER 1987		20 OCT 1987
International Searching Authority ¹		Signature of Authorized Officer ²⁰
ISA/US		S.R. Crow <i>ARCrow</i>